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Tel.: +49 (0)800 4372522

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.07.2022 Version number 4 (replaces version 3) Revision: 07.07.2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
  - · Trade name: Palapress vario powder
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - · Application of the substance / the mixture Manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Informing department: E-Mail: msds@kulzer-dental.com

• 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
  - · Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
  - · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS07 GHS09

- · Signal word Warning
- · Hazard-determining components of labelling:

dibenzoyl peroxide

methyl methacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- · 2.3 Other hazards -
  - · Results of PBT and vPvB assessment
    - · **PBT:** Not applicable. · **vPvB:** Not applicable.

#### SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
  - · Description: Product based on methacrylate copolymers

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· Dangerous com	· Dangerous components:		
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide Self-react. B, H241; Org. Perox. B, H241 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Eye Irrit. 2, H319; Skin Sens. 1, H317	≥1-<2.5%	
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥1-≤5%	
CAS: 72846-00-5	1-benzyl-5-phenylbarbituric acid Acute Tox. 4, H302; Eye Irrit. 2, H319 ATE: LD50 oral: 500 mg/kg	≥0-≤5%	

<sup>·</sup> Additional information For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms.
  - · After skin contact instantly wash with water and soap and rinse thoroughly.
  - After eye contact Rinse opened eye for several minutes under running water.
  - · After swallowing

Rinse out mouth and then drink plenty of water.

- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - · Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
  - · Protective equipment: No special measures required.
  - Additional information -

#### SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Collect mechanically.
- · 6.4 Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

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#### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

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- Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
  - Storage

freshwater

- Requirements to be met by storerooms and containers: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Store cool (not above 25 °C).

- · 7.3 Specific end use(s) No further relevant information available.

<b>94-36-0 di</b> OEL (Irelai <b>80-62-6 m</b> OEL (Irelai	henzoyl peroxide  nd) Long-terr Sens  ethyl methacrylate  nd) Short-terr Long-terr IOELV, S  uropean Union) Short-terr	m value: 5 mg/n m value: 100 pp n value: 50 ppn	от
OEL (Irelai <b>80-62-6 m</b> OEL (Irelai	nd) Long-terr Sens ethyl methacrylate nd) Short-terr Long-terr IOELV, S uropean Union) Short-terr	m value: 100 pp n value: 50 ppn	от
<b>80-62-6 m</b> OEL (Irela	ethyl methacrylate nd) Short-teri Long-terr IOELV, S iropean Union) Short-teri	m value: 100 pp n value: 50 ppn	от
OEL (Irela	nd) Short-teri Long-terr IOELV, S iropean Union) Short-teri	n value: 50 ppn	
	Long-terr IOELV, S Iropean Union) Short-teri	n value: 50 ppn	
IOELV (Eu	ropean Union) Short-teri		
	Long-terr	Short-term value: 100 ppm Long-term value: 50 ppm	
· DNE	Ls		
94-36-0 di	benzoyl peroxide		
Oral	general population, long	term, systemic	2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic 13.3 mg/Kg/d (not defined)		
Inhalative	worker industrial, long te	rm, systemic	39 mg/m3 (not defined)
80-62-6 m	ethyl methacrylate		
Oral	general population, long	term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	13.67 mg/Kg/d (not defined)
	general population, long	term, systemic	8.2 mg/Kg/d (not defined)
Inhalative	worker industrial, acute,	local	416 mg/m3 (not defined)
	worker industrial, long term, systemic		348.4 mg/m3 (not defined)
	worker industrial, long te	rm, local	208 mg/m3 (not defined)
	general population, acute	e, local	208 mg/m3 (not defined)
	general population, long	term, systemic	
· PNE	Cs		
94-36-0 di	benzoyl peroxide		
freshwater		0.00002 mg/l (	(not defined)
marine wa	ter	0.000002 mg/l	,
sewage tre	eatment plant	0.35 mg/l (not	` '
_	dry weight, freshwater	0.013 mg/Kg (	
	dry weight, marine water		
soil, dry weight		0.003 mg/Kg (	· · · · · · · · · · · · · · · · · · ·

0.94 mg/l (not defined)



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marine water
sewage treatment plant
sediment, dry weight, freshwater
sediment, dry weight, marine water
soil, dry weight

0.094 mg/l (not defined)
10 mg/l (not defined)
10.2 mg/Kg (not defined)
0.102 mg/Kg (not defined)
1.48 mg/Kg (not defined)

· Additional information: The lists that were valid during the compilation were used as basis.

#### · 8.2 Exposure controls

- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
  - General protective and hygienic measures
  - Wash hands during breaks and at the end of the work.
  - · Breathing equipment: Not necessary if room is well-ventilated.
  - · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

recommended

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

- Eye/face protection Safety glasses
- · Body protection: Light weight protective clothing

#### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

General Information

Physical state Solid.
Colour: Colourless
Pink

Smell: Nearly odourless
 Odour threshold: Not determined.
 Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range Not determined
Flammability Not determined.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable

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Ignition temperature: 400.0 °C

Decomposition temperature: Not determined.

·SADT

· **pH** Mixture is non-soluble (in water).

Viscosity:

Kinematic viscositydynamic:Not applicable.Not applicable.

Solubility

Water: Insoluble

Partition coefficient n-octanol/water (log

value)Not determined.Steam pressure:Not applicable.

Density and/or relative density

· Density at 20 °C 0 g/cm³

Relative density
 Vapour density
 Particle characteristics
 Not determined.
 Not applicable.
 See item 3.

• 9.2 Other information No further relevant information available.

· Appearance:

Form: Powder

Important information on protection of health and environment, and on safety.

Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of

explosive powder/air mixtures is possible.

Solvent content:

Solids content: 100.0 %

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

**Explosives** Void · Flammable gases Void · Aerosols Void · Oxidising gases · Gases under pressure Void Void Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void Void

Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

Void

Substances and mixtures, which emit

flammable gases in contact with water
Oxidising liquids
Oxidising solids
Organic peroxides
Void
Void

· Corrosive to metals Void · Desensitised explosives Void

- IE



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### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Conditions to be avoided: No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
  - · Additional information: -

### SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
• Acute toxicity Based on available data, the classification criteria are not met.

· LD/	· LD/LC50 values that are relevant for classification:		
94-36-0 di	94-36-0 dibenzoyl peroxide		
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)	
Inhalative	LC0/4h	24.3 ppm (rat) (OECD 403)	
80-62-6 m	80-62-6 methyl methacrylate		
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative	LC50/4 h	29.8 mg/l (rat)	
72846-00-	72846-00-5 1-benzyl-5-phenylbarbituric acid		
Oral	LD50	500 mg/kg (ATE)	
		500 mg/kg (rat) (OECD 423)	

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
  - Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

	· Aq	uatic	toxicity:	
_			-	_

## 94-36-0 dibenzoyl peroxide

EC50/72h	0.042 mg/l (algae) (OECD 201)
EC50/48h	0.11 mg/l (daphnia) (OECD 202)
LC50/96h	0.06 mg/l (fish) (OFCD 203)

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ErC50 / 72 h	0.071 mg/l (algae) (OECD 201)	_
NOEC / 72h	0.02 mg/l (algae) (OECD 201)	
NOEC / 96h	0.032 mg/l (fish) (OECD 203)	
NOEC / 48h	0.076 mg/l (daphnia) (OECD 202)	
ErC10	0.001 mg/L /21d (daphnia) (OECD 211)	
80-62-6 metl	hyl methacrylate	
EC50/21d	49 mg/L (daphnia) (OECD 211)	
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)	
NOEC / 21d	37 mg/l (daphnia) (OECD 211)	
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)	
NOEC / 72h	110 mg/l (algae) (OECD 201)	
	48 mg/l (daphnia) (EPA OTS 797.1300)	
EbC50 / 72h	>110 mg/l (algae) (OECD 201)	
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)	
LC50/ 35d	33.7 mg/L (fish) (OECD 210)	
72846-00-5 1	l-benzyl-5-phenylbarbituric acid	
EC50/48h	>50 mg/l (daphnia) (OECD 202)	
ErC50 / 72 h	>50 mg/l (algae) (OECD 201)	
· 12.2 Persiste	ence and degradability	
94-36-0 dibe	nzoyl peroxide	
	on 71 % /28d (not defined) (OECD 301D)	
	hyl methacrylate	
	on 94 % /14d (not defined) (OECD 301C)	
	I-benzyl-5-phenylbarbituric acid	
	on 29.1 % /29d (not defined) (OECD 301D)	

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
  - Additional ecological information:
    - · General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

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· European waste catalogue

18 01 06\* chemicals consisting of or containing hazardous substances

Uncleaned packagings:
 Recommendation:
 Packaging can be reused or recycled after cleaning.
 Non contaminated packagings can be used for recycling.

14.1 UN number or ID number	
· ADR, IMDG, IATA	UN3077
· 14.2 UN proper shipping name · ADR	3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo
· IMDG	peroxide) ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo)
·IATA	peroxide), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo peroxide)
14.3 Transport hazard class(es)	
· ADR	
· Class · Label	9 (M7) Miscellaneous dangerous substance and articles. 9
· IMDG, IATA	
¥2>	
· Class	<ol> <li>Miscellaneous dangerous substances ar articles.</li> </ol>
Label	9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and treé)



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14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
· Kemler Number: · EMS Number: · Stowage Category · Stowage Code	90 F-A,S-F A SW23 When transported in BK3 bu container, see 7.6.2.12 and 7.7.3.9.
14.7 Maritime transport in bulk according IMO instruments	<b>ng to</b> Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5 kg Code: E1 Maximum net quantity per inner packagin 30 g Maximum net quantity per outer packagin 1000 g 3 (-)
· IMDG Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packagin 30 g Maximum net quantity per outer packagin 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (DIBENZO) PEROXIDE), 9, III

### SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
    - Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
    - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
  - DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a quarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour. H241 Heating may cause a fire or explosion.

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H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Date of previous version: 22.02.2021

Version number of previous version: 3

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CHS: Clabelly Hermanical System of Classification and Labellian of Classification and La

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Self-react. B: Self-reactive substances and mixtures – Type B
Org. Perox. B: Organic peroxides – Type B
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
\*\* Data compared to the previous version altered.

\* Data compared to the previous version altered.